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#11/3/1000

Page 1 of 7

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/530,219B

DATE: 01/11/2002 TIME: 12:13:06

Input Set : A:\Rabg4016.app

Output Set: N:\CRF3\01112002\I530219B.raw

p5

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         GLINKA, ANDREI
 6 <120> TITLE OF INVENTION: AN INHIBITOR PROTEIN OF THE WNT SIGNAL PATH
 8 <130> FILE REFERENCE: RABG/40168
10 <140> CURRENT APPLICATION NUMBER: 09/530,219B
11 <141> CURRENT FILING DATE: 2000-07-27
13 <150> PRIOR APPLICATION NUMBER: PCT/DE98/03155
14 <151> PRIOR FILING DATE: 1998-10-27
16 <150> PRIOR APPLICATION NUMBER: DE 197 47 418.7
                                                             ENTERED
17 <151> PRIOR FILING DATE: 1997-10-27
19 <160> NUMBER OF SEQ ID NOS: 9
21 <170> SOFTWARE: PatentIn Ver. 2.1
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24 <211> LENGTH: 1297
25 <212> TYPE: DNA
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31 cggtgcctct tattgtcttt tggggtttta tcttggatgg ggcacttggc tttgtcatga 180
32 tgaccaactc caactccatc aagaatgtgc cggcggcacc agcaggtcag cccattggct 240
33 actaccetgt gagegteagt eeggacteee tatatgatat tgecaacaag taccaacete 300
34 tggatgccta cccgctctac agttgcacgg aagatgatga ctgtgccctt gatgaattct 360
35 gtcacagttc cagaaacggc aactctctgg tttgcttggc atgccggaaa cgcagaaagc 420
36 gttgcctgag ggacgccatg tgctgcacag gcaactactg tagcaacgga atttgtgtcc 480
37 ctgtggagca agatcaagag cgcttccaac accagggata cctggaagaa accattctgg 540
38 aaaactataa taatgctgat catgcaacaa tggatactca ttccaaatta accacgtccc 600
39 catctggaat gcagcccttt aaaggccgtg atggtgatgt ttgcctccga tcaactgact 660
40 gtgcgccagg tctatgctgt gcccgtcatt tctggtcaaa gatctgcaag ccggtccttg 720
41 atgaaggeca agtgtgcacc aagcacagga ggaaaggete teaegggeta gagattttee 780
42 agcgttgtca ctgcggtgcc ggactctcgt gccggttaca gaaaggagaa tttacaactg 840
43 tooctaaaac atogagactt cacacttgoo aaagacacta agogaggoot acagagootg 900
44 aaggacette tetaaattaa getaattaag aetttggtae etgeatgtta titteteagt 960
45 ttacatgaag tgctctggtc ttccctgaac ccggaagctg cgcaacttgt ttctttttt 1020
46 gaggaacttc ctaattaatg ctaattacag taaattactg tgttgtaaat actacgcaag 1080
47 gagacetgta aaaactgtaa ataceegtgt atagaaagtg tacatgatet tetetattgt 1140
48 aacctgccac cttgtacatt ccgacgcgct cttccctttt tatatatata tatatataaa 1200
49 tatatattat attatgtaga gtttacgtct agtatgtctg tatttttaat tgaaataaaa 1260
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60 cctacccttg cagcagtgat aaggaatgtg aagttggaag atactgccac agtccccacc 120
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61 aaggttcatc agcctgcatg ctctgtagga ggaaaaagaa acgatgccac agagatggga 180

RAW SEQUENCE LISTING DATE: 01/11/2002 PATENT APPLICATION: US/09/530,219B TIME: 12:13:06

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67 ccaaacaacq caaqaaqqqt tcqcacqqqc tqqaqatttt ccaqaqqttt gactqtqcaa 540
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69 tatgccagaa gatctgataa acactggaag agtcatcact agcagactgt gaatttgtgt 660
70 atttaatgca ttatggcatg atggaaacct ggattggaat gcggaagaat gagggatgtg 720
71 qtaaqaatqt qqaqcaqaaq aqqqcaggac tgaatcaagt agagtcgaca acaaccaaag 780
72 tactaccagt gcttccgtta tgtgcctcat ctatgtaaat aatgtacaca tttgtgaaaa 840
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85 ccgctgggtg gtgctggggg gcagccgggc tctgctgtca gtgtggcgcc gggagttctc 240
86 tatgagggcg ggaacaagta ccagactett gacaactace agecetacee ttgegetgaa 300
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90 tttcctcgag gggaaattga ggaaagcatc attgaaaacc ttggtaatga ccacaacgcc 540
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113 agegetgeea cegagatgge atgtgetgee ceagtaceeg etgeaataat ggeatetgta 180
114 toccagttac tgaaagcate ttaacccctc acatecegge tetggatggt acteggeaca 240
115 gagategaaa eeacggteat tacteaaace atgaettggg atggeagaat etaggaagae 300
116 cacacactaa gatgtcacat ataaaagggc atgaaggaga cccctgccta cgatcatcag 360
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Input Set : A:\Rabg4016.app

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110	tacagagtta	agactataca	aagggcctgt	cttgcaaagt	atqqaaaqat	godaddiadi	340
100		caractecat	atatataaaa	aaatttdatc	accallyayy	aacaccacca	000
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122	atocagaga	atggctaaaa	taaqaaacqt	gataagaata	tagatgatca	caaaaaaaa	, 20
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125	ataaggagtg	tratraccor	ccaaatccaa	gaggggggt	acctggacci	Cigggigeet	240
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127	actratrant	actococtag	teccacece	cqqaqqqqac	egeeggeegt	ycaaaccigc	500
120	ateacetaca	ggaaggggg	aaaacgctgc	atgcqtcacg	ctatgtgctg	CCCCgggaat	420
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140	gaaccatca	ctgaaagett.	taataataat	catagcacct	tggatgggta	LLCCayaaya	340
1 4 7	n a a a a a a t + a t	ottosasast	atateacace	aaaggacaag	aaqqttctqt	Ligitation	000
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172	ggagcggcgg	g geggeggega	. geggeeagee	. cygycywydi . acaeeataea	ggagatggaa	getgaagaag	240
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1/4	aaggggcaaa	a aaaactytca	. gaagtaaact	. Jugadadu			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/530,219B

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Input Set : A:\Rabg4016.app

Output Set: N:\CRF3\01112002\I530219B.raw

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177 agggtggaga aaacaaaaga aatcatgagt gtatcattga tgaagactgt gaaacaggaa 480
178 agtattgcca gttctccacc tttgaataca agtgtcagcc ctgtaaaacc cagcatacac 540
179 actgctcacg agatgttgaa tgctgcggag accagctttg tgtttggggt gagtgcagga 600
180 aagccacttc aagaggagaa aatggtacca tttgtgagaa ccaacatgac tgcaacccag 660
181 gaacgtgctg tgcttttcag aaagaactgc tgtttcctgt gtgcactccg ttacccgaag 720
182 aaggtgaacc ttgccatgat ccttcaaaca gacttctcaa cctgatcacc tgggaactgg 780
183 aacctgatgg agtactagag cgctgcccat gtgcaagtgg cttgatctgc caacctcaga 840
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185 aagaagatcc cttgaacatg gatgagatgc catttatcag tttaataccc agagatattc 960
186 tttctgatta cgaagaaagc agcgtcattc aggaagtgcg taaagaatta gaaagcctgg 1020
187 aggaccaagc aggtgtgaag tetgagcatg acceggetea tgacctattt etgggagatg 1080
188 aaatatgaag ttcaaacacc agtttagtta gtcctagaaa ttgttgtcta gtgtcttgct 1140
189 tacatacacc cttaacagat actgctggat agaagtgcaa taaacatctt cattgagcat 1200
190 ccgttttcgt gcaccaaacc tgcatgttca aattcatgtt gaattcactc aatctttgga 1260
191 ccaaactttc catcaaagac aaatgagaaa ggcatcagtg tttcctttgg attaatcctt 1320
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DATE: 01/11/2002

TIME: 12:13:06

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                   Output Set: N:\CRF3\01112002\I530219B.raw
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/530,219B

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/530,219B

DATE: 01/11/2002 TIME: 12:13:07

Input Set : A:\Rabg4016.app

Output Set: N:\CRF3\01112002\I530219B.raw

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L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9